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FAX COVER SHEET

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4000US1

Date:

May 5, 2004

Pages:

12 (including cover sheet)

Confirm:

Comments:

Re: U.S. patent Application No. 09/911,969

Yukio Kawamura et al. Our Ref: 3479-4000US1

As per your request, attached is a paper copy of the sequence listing for the above-identified application.

Regards, Sybil Lombillo

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SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - APPLICANT: Kawamura, Yukio; Morita, (i) Akihiro; Izumo, Koji.; Saka, Tomohide.
 - TITLE OF INVENTION: ANTITUMOR PROTEIN AND (ii) GENE ENCODING SAME
 - NUMBER OF SEQUENCES: 20 (iii)
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
 - (B) STREET: 345 PARK AVENUE
 - (C) CITY: NEW YORK
 - (D) STATE: NEW YORK (E) COUNTRY: USA (F) ZIP: 10154
 - COMPUTER READABLE FORM: (v)

 - (A) MEDIUM TYPE: FLOPPY DISK
 (B) COMPUTER: IBM PC COMPATIBLE
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: MICROSOFT WORD 97
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/023,731
 - (B) FILING DATE: 13-FEB-1998
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: JP 29275/1997 (B) FILING DATE: 13-FEH-1997
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: KENNETH H. SONNENFELD
 (B) REGISTRATION NUMBER. 33 285
 - (C) REFERENCE/DOCKET NUMBER: 3479-4000
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (212) 758-4800
 - TELEFAX: (212) 751-6849 (B)
 - (C) TELEX: 421792
 - (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 566
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Pro Ile Arg Leu Ser Lys Glu Lys Ile Asn Asp Leu Leu Gln Arg

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Ser Gln Gly Asp Leu Thr Ser Ser Gln His Glu Ile Val His Phe Thr 25 Asp Val Phe Ile Ala Gly Ser Gly Pro Ile Ser Cys Thr Tyr Ala Arg 35 40 45 His Ile Ile Asp Asn Thr Ser Thr Thr Lys Val Tyr Met Ala Glu Ile
50 60 Gly Ser Gln Asp Asn Pro Val Ile Gly Ala His His Lys Asn Ser Ile 70 Lys Phe Gln Lys Asp Ile Asp Lys Phe Val Asn Ile Ile Asn Gly Ala 85 90 Leu Gln Pro Ile Ser Ile Ser Pro Ser Asp Thr Tyr Gln Pro Thr Leu 100 105 110 Ala Val Ala Ala Trp Ala Pro Pro Ile Asp Pro Ala Glu Gly Gln Leu 115 120 125 Val Ile Met Gly His Asn Pro Asn Glm Glu Ala Gly Leu Asn Leu Pro 130 135 140 Gly Ser Ala Val Thr Arg Thr Val Gly Gly Met Ala Thr His Trp Thr 145 150 155 Cys Ala Cys Pro Thr Pro His Asp Glo Glo Arg Val Asn Asn Pro Val 170 165 Asp Lys Gln Glu Phe Asp Ala Leu Leu Glu Arg Ala Lys Thr Leu Leu 180 185 190 Asn Val His Ser Asp Gln Tyr Asp Asp Ser Ile Arg Gln Ile Val Val 195 200 205 Lys Glu Thr Leu Gln Gln Thr Leu Asp Ala Ser Arg Gly Val Thr Thr 215 220 Leu Pro Leu Gly Val Glu Arg Arg Thr Asp Asn Pro Ile Tyr Val Thr 230 235 Trp Thr Gly Ala Asp Thr Val Leu Gly Asp Val Pro Lys Ser Pro Arg 250 Phe Ala Leu Val Thr Glu Thr Arg Val Thr Lys Leu Ile Val Ser Glu 260 265 270 Thr Asn Pro Thr Gln Val Val Ala Ala Leu Leu Arg Asn Leu Asn Thr 275 280 285 Ser Asn Asp Glu Leu Val Val Ala Lys Sor Phe Val Ile Ala Cys Gly 295 300 Ala Val Cys Thr Pro Gln Ile Leu Trp A:n Ser Asn Ile Arg Pro Tyr 310 315 Ala Leu Gly Arg Tyr Leu Ser Glu Gln Ser Met Thr Phe Cys Gln Ile 325 330 Val Leu Lys Arg Gly Ile Val Asp Ala I).e Ala Thr Asp Pro Arg Phe 340 345 350 Ala Ala Lys Val Glu Ala His Lys Lys Lys His Pro Asp Asp Val Leu 355 360 365 Pro Ile Pro Phe His Glu Pro Glu Pro Gln Val Met Ile Pro Tyr Thr 375 Ser Asp Phe Pro Trp His Val Gln Val His Arg Asp Ala Phe Ser Tyr 390 395 Gly Asp Val Gly Pro Lys Ala Asp Pro Arg Val Val Val Asp Leu Arg
405 410 415 Phe Phe Gly Lys Ser Asp Ile Val Glu Glu Asn Arg Val Thr Phe Gly 420 425 430 Pro Asn Pro Lys Leu Arg Glu Trp Glu Ala Gly Val Thr Asp Thr Tyr 445 435 440 Gly Met Pro Gln Pro Thr Phe His Val Lys Arg Thr Asn Ala Asp Gly 455

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Asp Arg Asp Gln Arg Met Met Asn Asp Met Thr Asn Val Ala Asn Met 470 475 Leu Gly Gly Tyr Leu Pro Gly Ser Tyr Pro Gln Phe Met Ala Pro Gly 485 490 Leu Val Leu His Ile Thr Gly Thr Thr Arg Ile Gly Thr Asp Asp Gln 500 505 510 Thr Ser Val Ala Asp Pro Thr Ser Lys Val His Asm Phe Asm Asm Leu 520 525 Trp Val Gly Gly Asn Gly Cys Ile Pro Asp Ala Thr Ala Cys Asn Pro 535 540 Thr Arg Thr Ser Val Ala Tyr Ala Leu Lys Gly Ala Glu Ala Val Val 550 555 Asn Tyr Leu Gly Val Ser 565

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1701
 - (B) TYPE: nucleic acid
 - (C) TOPOLOGY: linear
 - (D) STRANDNESS: Single
- (ii) MOLECULE TYPE: cDNA to RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ATG Met l	CCG Pro	ATA Ile	CGT Arg	CTT Leu 5	TCC	AAA Lys	GAA Glu	AAA Lys	ATC Ile 10	AAC Asn	GAC Asp	CTG Leu	CTG Leu	CAA Gln 15	CGT Arg	48
TCT Ser	CAA Gln	GGG Gly	GAT Asp 20	CTT Leu	ACT Thr	TCC Ser	TCG Ser	CAA Gln 25	CAC His	GAA Glu	ATT Ile	GTA Val	CAT His 30	TTÇ Phe	ACT Thr	96
GAT Asp	GTT Val	TTC Phe 35	ATT Ile	GCT Ala	GGC Gly	AGT Ser	GGT Gly 40	CCC Pro	ATT Ile	AGC Ser	TGT Cys	ACT Thr 45	TAC Tyr	GCC Ala	¢ G¢ Arg	144
CAC His	ATC Ile 50	ATT Ile	GAC Asp	AAT Asn	ACC Thr	TCA Ser 55	ACT Thr	ACA Thr	AAG Lys	GTT Val	TAC Tyr 60	ATG Met	GCC Ala	GAA Glu	ATA Ile	192
GGT Gly 65	TCT Ser	CAA Gln	GAT Asp	AAC Asn	CCT Pro 70	GTC Val	ATĊ Ile	GGG Gly	GCC A) a	CAT His 75	CAC His	AAG Lys	AAÇ Asn	TCC Ser	ATA Ile 80	240
AAG Lys	TTT Phe	CAG Gln	AAA Lys	GAC Asp 85	ATT Ile	GAC Asp	AAG Lys	TTT Phe	GJ'G V&1 90	AAT Asn	ATC Ile	ATC Ile	AAÇ Asn	GGT Gly 95	GCC Ala	288
CTC Leu	CAG Gln	CCG Pro	ATT Ile 100	TCG Ser	ATT Ile	TCG Ser	CCA Pro	TCG Ser 105	GAC Asp	ACC Thr	TAC Tyr	CAG Gln	CCC Pro 110	ACT Thr	CTC Leu	336

						GAA Glu 125		384
						CTG Leu		432
						ACC Thr		480
						AAC Asn		528
						AAA Lys		576
						CAG Gln 205		624
						GGT Gly		672
						ATT Ile		720
						AAG Lys		768
						ATT Ile		816
						AAC Asn 285		864
-						ATA Ile		912
						ATC Ile		960
						TTT Phe		1008

GTT Val	CTC Leu	AAG Lys	AGG Arg 340	GGC Gly	ATA Íle	GTC Val	GAT Asp	GCC Ala 345	ATC Ile	GCT Ala	AÇT Thr	GAC Asp	CCT Pro 350	Arg	TTC Phe	1056
GCT Ala	GCG Ala	AAG Lys 355	GTT Val	GAG Glu	GCG Ala	CAC His	AAG Lys 360	AAG Lys	AAG Lys	CAC His	CCC Pro	GAT Asp 365	GAC Asp	GTG Val	CTG Leu	1104
CCC Pro	ATT Ile 370	CCA Pro	TTC Phe	CAC His	GAG Glu	CCT Pro 375	GAA Glu	CCT Pro	CAA Gln	GTG Vaļ	ATG Met 380	ATT Ile	CCG Pro	TAC Tyr	ACG Thr	1152
TCG Ser 385	GAC Asp	TTC Phe	CCT Pro	TGG Trp	CAT His 390	GTT Val	CAG Gln	GTG Val	CAT His	CGC Arg 395	GAT Asp	GCA Ala	TTC Phe	TCA Ser	TAT Tyr 400	1200
GGT Gly	GAT Asp	GTT Val	GGA Gly	CCC Pro 405	AAG Lys	GCC Ala	GAÇ Asp	CCG Pro	CGT Arg 410	GTT Val	GTC Val	GTC Val	GAT Asp	CTG Leu 415	AGG Arg	1248
TTT Phe	TTC Phe	GGC Gly	AAA Lys 420	TCA Ser	GAT Asp	ATT Ile	ĢТÇ Val	GAA Glu 425	GAA Glu	AAT Asn	CGA Arg	GTG Val	ACT Thr 430	TTÇ Phe	GGT Gly	1296
CCG Pro	AAC Asn	CCT Pro 435	AAG Lys	CTA Leu	CGC Arg	GAG Glu	TGG Trp 440	GAA Glu	GCG Ala	GGT Gly	GTT Val	ACA Thr 445	GAC Asp	ACT Thr	TAT Tyr	1344
GGA Gly	ATG Met 450	CCA Pro	CAG Gln	CCG Pro	AÇA Thr	TTC Phe 455	CAT His	GTC Val	AAG Lys	CGG Arg	ACC Thr 460	AAC Asn	GCC Ala	GAT Asp	GGA Gly	1392
GAC Asp 465	CGT Arg	GAC Asp	CAG Gln	AGG Arg	ATG Met 470	ATG Met	AAT Asn	GAT Asp	A'IG Mı≥t	ACC Thr 475	AAC Asn	GTC Val	GCG Ala	AAC Asn	ATG Met 480	1440
Leu	Gly	GGG Gly	Tyr	Leu 485	Pro	Gly	Ser	Tyr	Pro 490	Ģln	Phe	Met	Ala	Pro 495	Gly	1488
CTC Leu	GTA Val	CTG Leu	CAC His 500	ATC Ile	ACG Thr	GGA Gly	ACT Th r	ACT Thr 505	CGG Ang	ATC Ile	GGG Gly	ACA Thr	GAT Asp 510	GAT Asp	ÇAA Gln	1536
ACT Thr	TCT Ser	GTT Val 515	GCT Ala	GAT Asp	CCG Pro	ACA Thr	TCA Ser 520	AAÇ Lya	ÇTT Val	CAT His	AAC Asn	TTC Phe 525	AAC Asn	AAT Asn	CTG Leu	1584
Trp	Val 530	GGC Gly	Gly	Asn	Сlу	Суя 535	Ile	Pro	Азр	Ala	Thr 540	Ala	Çyə	Asn	Pro	1632
ACT Thr 545	CGT Arg	ACG Thr	AGC Ser	۷al	GCG Ala 550	TAT Tyr	GCG Ala	CTC Leu	AAG Lys	GGT Gly 555	GCT Ala	GAG Glu	GCT Ala	GTA Val	GTC Val 560	1680

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AAT TAC CTT GGC GTC TCC TGA Asn Tyr Leu Gly Val Ser * 1701

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: \$EQ ID NO:3:

Pro Ile Arg Leu Ser Lys Glu Lys Ile Asn Asp Leu Leu Gln Arg Ser l 5 10 15
Gln Gly Asp Leu Thr Ser Ser Gln His Glu Ile Val His 20 25

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 57
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

 Pro Ile Arg Leu
 Ser Lys Glu
 Lys Ile Asn Asp
 Leu Leu Gln
 Arg Ser 15

 1
 5
 10
 10
 15

 Gln
 Gly
 Asp
 Leu
 Thr
 Ser Ser Gln
 His Glu
 Ile Val
 His Phe Thr
 Asp

 Val
 Phe Ile Ala Gly
 Ser Gly
 Pro Ile Ser Cys
 Thr
 Tyr
 Ala Arg
 His

 35
 40
 45

 Ile Ile Asp
 Asp
 Asn
 Thr
 Ser Thr
 Lys

 50
 55

- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Val Tyr Met Ala Glu Ile Gly Ser Gln Asp Asn Pro Val Ile Gly Ala 1 5 10 . 15 His His Lys

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- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 61
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

 Phe Val Asn Ile Ile Asn Gly Ala Leu Gln Pro Ile Ser Ile Ser Pro 1

 1
 5
 10
 15
 15

 Ser Asp Thr Tyr Gln Pro Thr Leu Ala Val Ala Ala Trp Ala Pro 30
 20
 25
 30
 30

 Ile Asp Pro Ala Glu Gly Gln Leu Val Ile Met Gly His Asn Pro Asn 35
 40
 45

 Gln Glu Ala Gly Leu Asn Leu Pro Gly Ser Ala Val Thr 50
 55
 60

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Arg Thr Val Gly Gly Met Ala Thr His Trp Thr Cys Ala Cys Pro Thr 1 5 15

Pro His Asp Glu Glu Arg Val Asn Asn Pro Val Asp Lys 20 25

- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Gln Glu Phe Asp Ala Leu Leu Glu Arg Ata Lys Thr Leu Leu Asn Val 1 5 10 15 His Ser Asp Gln Tyr Asp Asp Ser Tle Arg Gln Tle Val Val Lys 20 25 30

(2) INFORMATION FOR SEQ ID NO:9:

May-05-04

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 58
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Glu Thr Leu Gln Gln Thr Leu Asp Ala Ser Arg Gly Val Thr Thr Leu 10 Pro Leu Gly Val Glu Arg Arg Thr Asp Asn Pro Ile Tyr Val Thr Trp 20 25 . Thr Gly Ala Asp Thr Val Leu Gly Asp Val Pro Lys Ser Pro Arg Phe 40 Ala Leu Val Thr Glu Thr Arg Val Thr Lys

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30

 - (B) TYPE: amino acid(D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Leu Ile Val Ser Glu Thr Asn Pro Thr Gin Val Val Ala Ala Leu Leu 10 Arg Asn Leu Asn Thr Ser Asn Asp Glu Leu Val Val Ala Lys 20 25

- (2) INFORMATION FOR SEQ ID NO:11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 58
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Phe Val Ile Ala Cys Gly Ala Val Cys Thr Pro Gln Ile Leu Trp 10 Asn Ser Asn Ile Arg Pro Tyr Ala Leu Gly Arg Tyr Leu Ser Glu Gln 20 25 30 Ser Met Thr Phe Cys Gln Ile Val Leu Lys Arg Gly Ile Val Asp Ala 35 40 Ile Ala Thr Asp Pro Arg Phe Ala Ala Lys

473997 1

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- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 51
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

 Val Glu Ala His Lys Lys Lys His Pro Asp Asp Val Leu Pro Ile Pro 1
 5
 10
 .
 15

 Phe His Glu Pro Glu Pro Gln Val Met IIe Pro Tyr Thr Ser Asp Phe 20
 25
 30

 Pro Trp His Val Gln Val His Arg Asp Ala Phe Ser Tyr Gly Asp Val 35
 40
 45

 Gly Pro Lys 50
 50

- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Ala Asp Pro Arg Val Val Asp Leu Arg Phe Phe Gly Lys Ser Asp
1 5 10 15

Ile Val Glu Glu Asn Arg Val Thr Phe Gly Pro Asn Pro Lys
20 25 30

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 50
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

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Leu Pro

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Gly Ser Tyr Pro Gln Phe Met Ala Pro Gly Leu Val Leu His Ile Thr 1 5 10 15 Gly Thr Thr Arg Ile Gly Thr Asp Asp Gin Thr Ser Val Ala Asp Pro 20 25 30 Thr Ser Lys 35

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Val His Asn Phe Asn Asn Leu Trp Val Gly Gly Asn Gly Cys Ile Pro 1 5 10 15

Asp Ala Thr Ala Cys Asn Pro Thr Arg Thr Ser Val Ala Tyr Ala Leu 20 25 30

Lys

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Gly Ala Glu Ala Val Val Asn Tyr Leu Gly Val Ser 1 10

(2) INFORMATION FOR SEQ ID NO:18:

473997 1

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: pepride
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Asn Ser Ile Lys Phe Gln Lys Asp Ile Amp Lys Phe Val Asn Ile Ile

1 5 10 15

Asn Gly Ala Leu Gln Pro
20

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26
 - (B) TYPE: nucleic acid
 - (C) STRANDNESS: Single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GAGAGACCAT GGGGTATCGT CTTTCC

26

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27
 - (B) TYPE: nucleic acid
 - (D) STRANDNESS: Single
 - (D) TOPOLOGY: linear
 - (11) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GAGAGAGGAT CCGGAGACGC CAAGGAT

27